

ABSTRACT

5 An ion-conductive composition includes an electrolyte
solution made of an ion-conductive salt and a solvent in
which the ion-conductive salt is soluble, and a
thermoplastic resin having a specific swelling ratio when
immersed in the electrolyte solution. The invention is also
10 directed at a gel electrolyte produced by shaping the
thermoplastic resin, then immersing it in an electrolyte
solution to effect swelling. High-performance non-aqueous
electrolyte batteries and electrical double-layer capacitors
can be built using a thermoplastic resin-containing
15 electrode binder composition in which the resin bonds well
with active materials or activated carbon and which has an
excellent adhesion to current conductors.